PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY NOTIFICATION OF TRANSMITTAL OF CARPMAELS & RANSFORD THE INTERNATIONAL SEARCH REPORT AND Attn. Tunstall, Christopher THE WRITTEN OPINION OF THE INTERNATIONAL 43-45 Bloomsbury square in and SEARCHING AUTHORITY, OR THE DECLARATION London WC1A 2RA 0 5 SEP 2005 UNITED KINGDOM Hittaru Land CAMPWALLS & FLANS (PCT Rule 44.1) ACTIONED .. Date of mailing (day/month/year) 06/09/2005 Applicant's or agent's file reference FOR FURTHER ACTION P037870WO See paragraphs 1 and 4 below International application No. International filing date (day/month/year) PCT/GB2005/002108 27/05/2005 Applicant CILAG AG INTERNATIONAL The applicant is hereby notified that the international search report and the written opinion of the International Searching 1. |X Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. International Bureau of WIPO, 34 chemin des Colombettes Where? Directly to the 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. in respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Vera Schertl

Authorized officer

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international pbulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples Illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FOR FURTHER see Form PCT/ISA/220		see Form PCT/ISA/220			
P037870WO	A OTIONI an investment of the Company of the Compan				
International application No.	International filing date (day/month/year)		(Earliest) Priority Date (day/month/year)		
PCT/GB2005/002108	27/05/2005		28/05/2004		
Applicant	, , , , , , , , , , , , , , , , , , ,				
CILAG AG INTERNATIONAL					
This International Search Report has beer according to Article 18. A copy is being tra	n prepared by this International Sea ansmitted to the International Bureau	rching Auth J.	nority and is transmitted to the applicant		
This International Search Report consists	of a total of 5 she	eets.			
X It is also accompanied by	a copy of each prior art document o	ited in this	report.		
Basis of the report With regard to the language, the language in which it was filed, unli	international search was carried out ess otherwise indicated under this it	on the bas em.	sis of the international application in the		
The international this Authority (Rul		of a transla	ation of the international application furnished to		
b. With regard to any nucleo	otide and/or amino acid sequence	disclosed	in the international application, see Box No. I.		
2. Certain claims were four	2. Certain claims were found unsearchable (See Box II).				
3. Unity of invention is lacking (see Box III).					
4. With regard to the title,					
X the text is approved as su	X the text is approved as submitted by the applicant.				
the text has been establish	hed by this Authority to read as follo	ws:			
5. With regard to the abstract,					
the text is approved as su X the text has been establish	,	nic Authorit	y as it appears in Box No. IV. The applicant		
	m the date of mailing of this interna-	ional searc	th report, submit comments to this Authority.		
6. With regard to the drawings,					
a. the figure of the drawings to be p	ublished with the abstract is Figure	No. <u>1</u>			
as suggested by t	• •				
	s Authority, because the applicant fa				
	s Authority, because this figure bette e published with the abstract.	er characte	rizes the invention.		
	published with the abstract.				

International application No.

INTERNATIONAL SEARCH REPORT

PCT/GB2005/002108

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet) An injection device (110) is described having a housing (112) that receives a syringe (114) having a needle (118), wherein the syringe is supported in a syringe carrier (150). The syringe and syringe carrier are biased by a return spring (126) from an extended position in which the needle (118) extends from the housing (112) through an exit aperture (128) to a retracted position in which it does not. A drive spring (130) acts via a drive to advance the syringe from its retracted position to its extended position and discharge its contents through the needle and a return spring, brought into play when the drive has reached a nominal return position, restores the syringe to its retracted position.

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2005/002108

a. classification of subject matter IPC 7 A61M5/20 A61M A61M5/32 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61M Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Category 9 Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 2005/020979 A1 (WESTBYE LARS TOMMY ET P,X 1 - 12AL) 27 January 2005 (2005-01-27) abstract; figures 2,5 χ US 6 613 022 B1 (DOYLE MARK CHRISTOPHER) 1-122 September 2003 (2003-09-02) abstract; figures χ US 6 454 743 B1 (WEBER WILFRIED) 24 September 2002 (2002-09-24) abstract; figure 1 X US 6 203 530 B1 (STEWART, SR. EDWARD) 1 20 March 2001 (2001-03-20) Α abstract; figures 2-12 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 26 August 2005 06/09/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 Ehrsam, F

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2005/002108

1	C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	1017 4020037 002108		
	Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
	X	US 5 599 309 A (MARSHALL ET AL) 4 February 1997 (1997-02-04)	1 2–12		
	X	US 6 544 234 B1 (GABRIEL JOCHEN) 8 April 2003 (2003-04-08)	1		
	Α	abstract; figures	2–12		

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/GB2005/002108

	Publication date		Patent family member(s)		Publication date	
A1	27-01-2005	WO	2005009520	A1	03-02-2005	
B1	02-09-2003	US CA EP JP WO US	2407739 1284769 2003532500 0185239	A1 A2 T A2	23-09-2003 15-11-2001 26-02-2003 05-11-2003 15-11-2001 12-05-2005	
B1	24-09-2002	DE AT AU CA WO DE DK EP ES JP NO PT ZA	222129 741039 4600499 2326359 9956805 59902348 1075292 1075292 2182540 2002513647 20005326 1075292	T B2 A1 A1 D1 T3 A1 T3 T A	11-11-1999 15-08-2002 22-11-2001 23-11-1999 11-11-1999 11-11-1999 19-09-2002 16-12-2002 14-02-2001 01-03-2003 14-05-2002 23-10-2000 31-12-2002 10-08-2001	
B1	20-03-2001	NONE				
A	04-02-1997	DE DE EP WO	69427226 0693946	T2 A1	21-06-2001 30-08-2001 31-01-1996 29-09-1994	
B1	08-04-2003	DE AT CA DE WO EP EP JP	276782 2319106 59812008 9937343 1452197 1049501	T A1 D1 A1 A2 A1	12-08-1999 15-10-2004 29-07-1999 28-10-2004 29-07-1999 01-09-2004 08-11-2000 15-01-2002	
	B1 B1 A	A1 27-01-2005 B1 02-09-2003 B1 24-09-2002 B1 20-03-2001 A 04-02-1997	A1 27-01-2005 WO	Mate member(s)	Mate member(s)	

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

То:			PCT		
see form PCT/ISA/220			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)		
			Date of mailing (day/month/year) se	ee form PCT/ISA/210 (second sheet)	
Applicant's or agent's file reference see form PCT/ISA/220			FOR FURTHER ACTION See paragraph 2 below		
	nternational application No. International filing date PCT/GB2005/002108 27.05.2005			Priority date (day/month/year) 28.05.2004	
International Patent Class A61M5/20, A61M5/	, ,	both national classification	and IPC	1	
Applicant CILAG AG INTERN	IATIONAL				
1. This opinion of Box No. I □ Box No. II □ Box No. III □ Box No. IV ⊠ Box No. V	lox No. II Priority lox No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability lox No. IV Lack of unity of invention				
☐ Box No. VI☐ Box No. VII	N ^{ew} 1				
2. FURTHER ACT	ION				
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three					
months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					
	For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.					

Name and mailing address of the ISA:

Authorized Officer

9

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Ehrsam, F

Telephone No. +49 89 2399-2343



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/002108

_	Box	No. I	Basis of the opinion					
1.	With the la	regard Ingua	d to the language , this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.					
١.	la	☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).						
2.	With neces	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. type of material:							
		a se	equence listing					
		tab	le(s) related to the sequence listing					
	b. format of material:							
		in w	vritten format					
		in c	computer readable form					
	c. tim	e of fi	ling/furnishing:					
		con	stained in the international application as filed.					
		filed	d together with the international application in computer readable form.					
		furn	nished subsequently to this Authority for the purposes of search.					
3.	h C	as be opies	tion, in the case that more than one version or copy of a sequence listing and/or table relating thereto en filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.					
4	Additional comments:							

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/002108

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

Claims

1-12

Inventive step (IS)

Yes: Claims

No: Claims

1-12

Industrial applicability (IA)

Yes: Claims

1-12

No: Claims

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rules 43bis.1 and 70.10)

and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V.

- 1 Reference is made to the following documents:
 - D1: US 2005/020979 A1 (WESTBYE LARS TOMMY ET AL) 27 January 2005
 - D2: US-B1-6 613 022 (DOYLE MARK CHRISTOPHER) 2 September 2003
 - D3: US-B1-6 454 743 (WEBER WILFRIED) 24 September 2002 (2002-09-24)
 - D4: US-B1-6 203 530 (STEWART, SR. EDWARD) 20 March 2001 (2001-03-20)
 - D5: US-A-5 599 309 (MARSHALL ET AL) 4 February 1997 (1997-02-04)
 - D6: US-B1-6 544 234 (GABRIEL JOCHEN) 8 April 2003 (2003-04-08)

2 INDEPENDENT CLAIM 1

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1 discloses all the features of claim, in particular a syringe carrier adapted to support a syringe having a wide reservoir, see in particular the figures and the description relating to it.
The same objection applies to the other cited documents D2-D6, see in particular the

figures and the abstract.

3 DEPENDENT CLAIMS 2-12

Dependent claims 2-12 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT), see in particular the documents D2-D6.

Re Item VII.

1. The description should have been brought into conformity with the new claims to be filed; care should be taken during revision, especially of the introductory portion including any statements of problem or advantage, not to add subject-matter which extends beyond the content of the application as originally filed (Art. 34 2) b)).

- 2. To meet the requirements of Rules 6 3 b) the independent claim should have been properly cast in a two part form, with those features which in combination are part of the nearest prior art being placed in the first part.
- 3. To meet the requirements of Rule 5.1 a vi, the cited documents should have been identified in the description and the relevant background art therein is to be indicated.
- 4. The features of the claims should have been provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

Re Item VIII.

1. Claim 13 is not clear since it refers only to the drawings. Such a claim should have therefore been deleted to overcome the mentioned clarity objection (Art. 6 PCT).